



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re US Patent Application of:	)	
Ronald D. Blum et al.	)	
Application No.: 10/644,112	)	Group Art Unit: 2873
Filing Date: August 20, 2003	)	Examiner: Unassigned
Title: METHOD OF MANUFACTURING AN ELECTRO-ACTIVE LENS	)	

## INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Attached hereto is a duly completed Form PTO-1449 listing references which may be considered either material or helpful to the examination of the above-identified patent application. Pages 1-7 of Form PTO-1449 list references which were submitted in the priority applications and consequently duplicate copies of these references are not attached hereto. Copies of the references found on pages 8-10 and not previously of record are enclosed for the Examiner's review. It is requested that all these references be considered by the Examiner and officially made of record.

Respectfully submitted,

Shawn K. Leppo Registration No. 50,311

Hunton & Williams

Riverfront Plaza, East Tower 951 East Byrd Street Richmond, VA 23219-4074 (804) 788-8516 telephone number (804) 343-4666 facsimile number

Date: February 11, 2004

(Rev. 8-83)		U.S. Departme Patent and Trac	ent of Commerce demark Office	Atty. Docket No.: 63	3049.000088	Application	No.: 10/644,112
	SI	ATION DISC FATEMEN	T				
<b>(</b>	(Use sev	veral sheets if nece	essary)	Applicant: Ronald I	D. Blum et al.	<u> </u>	
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				Filing Date: August	20, 2003	Group: 287	73
			U.S. PA	TENT DOCUMI	ENTS	<del>4</del>	
Examiner Initial*		Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
	1	Re. 35,691	12/16/97	Theirl et al.			
	2	D 298,250	10/25/88	Kildall			
	3	D 342,063	12/7/93	Howitt et al.			
	4	D 350,342	9/6/94	Sack			
	5	2,437,642	3/9/48	Henroteau			
	6	2,576,581	11/27/51	Edwards			
	7	3,161,718	12/15/64	de Luca			
	8	3,245,315	4/12/66	Marks et al.			
	9.	3,614,215	10/19/71	Mackta			
	10	3,738,734	6/12/73	Tait et al.			· . · · · ·
	11	4,174,156	11/13/79	Glorieux			
	12	4,181,408	1/1/80	Senders			
	13	4,190,330	2/26/80	Berreman			
Examiner:				Date Considered:			
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applicant.

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(Rev. 8-83)		U.S. Department Patent and Trace	nt of Commerce demark Office	;	Atty. Docket No.: 6	3049.000088	Application	1 No.: 10/644,112
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					Filing Date: Augus	it 20 , 2003	Group: 287	73
			U.S. P	AT	ENT DOCUM	ENTS		
Examiner Initial*		Document Number	Date		Name	Class	Subclass	Filing Date (if appropriate)
	14	4,264,154	4/28/81	†P	Peterson			
	15	4,279,474	7/21/81	E	Belgorod			
	16	4,300,818	11/17/81	S	Schachar			
	17	4,373,218	2/15/83	s	Schachar			
	18	4,395,736	7/26/83	F	raleux			
	19	4,418,990	12/6/83	[	Gerber			
	20	4,457,585	7/3/84		DuCorday			
	21	4,466,706	8/21/84	I	Lamothe, II			
	22	4,529,268	7/16/85		Brown			
	23	4,564,267	1/14/86	┸	Nishimoto			
	24	4,572,616	2/25/86	$\perp$	Kowel et al.			
	25	4,577,928	3/25/86	$\perp$	Brown			
	26	4,601,545	7/22/86		Kern			
	27	4,609,824	9/2/86		Aunier et al.			
·	28	4,712,870	12/15/87		Robinson et al.			
·	29	4,756,605	7/12/88		Okada et al.			
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(Rev. 8-83)		U.S. Department Patent and Trace	nt of Commerce lemark Office	Atty, Docket No	.: 63049.000088	Application	No.: 10/644,112
INFOI		TION DISC FATEMEN		E			
	(Use se	veral sheets if nece	essary)	Applicant: Rona	ald D. Blum et al.		
				Filing Date: Au	gust 20, 2003	Group: 287	73
			U.S. PA	ATENT DOCU	MENTS		
Examiner Initial*	ial* Number		Name	Class	Subclass	Filing Date (if appropriate)	
	30	4,772,094	9/20/88	Sheiman			
	31	4,795,248	1/3/89	Okada et al.			
	32	4,818,095	4/4/89	Takeuchi			
	33	4,836,652	6/6/89	Oishi et al.			
	34	4,880,300	11/14/89	Payner et al.	,,,,		
	35	4,904,063	2/27/90	Okada et al.			
	36	4,907,860	3/13/90	Noble			
	37	4,919,520	4/24/90	Okada et al.			
	38	4,927,241	5/22/90	Kuijk	-		
	39	4,929,865	5/29/90	Blum			
	40	4,930,884	6/5/90	Tichenor et al.			
	41	4,945,242	7/31/90	Berger et al.			
	42	4,952,788	8/28/90	Berger et al.	-		
	43	4,958,907	9/25/90	Davis			

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Kev. 8-83) INFOI	RMA	U.S. Departme Patent and Trac TION DISC FATEMEN	CLOSURE	Atty. Docket No.: 6	3049.000088	Application	1 No.: 10/64		
•	(Use se	veral sheets if nec	essary)	Applicant: Ronald D. Blum et al.					
				Filing Date: Augus	Group: 2873				
			U.S. PA	TENT DOCUM	ENTS	<u> </u>			
Examiner Initial*		Document Number	Date	Name	Class	Subclass	Filing (if appi		
	44	4,961,639	10/9/90	Lazarus					
	45	4,968,127	11/6/90	Russell et al.					
	46	4,981,342	1/1/91	Fiala					
	47	4,991,951	2/12/91	Mizuno et al.					
	48	5,015,086	5/14/91	Okaue et al.					
	49	5,030,882	7/9/91	Solero					
	50	5,066,301	11/19/91	Wiley					
	51	5,073,021	12/17/91	Marron					
-	52	5,076,665	12/31/91	Petersen			_		
	53	5,091,801	2/25/92	Ebstein					
	54	5,108,169	4/28/92	Mandell					
	55	5,130,856	7/14/92	Tichenor et al.					
	56	5,142,411	8/25/92	Fiala					
	57	5,171,266	12/15/92	Wiley et al.		1			
	58	5,182,585	1/26/93	Stoner					
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(Rev. 8-83)	)-1449	U.S. Department Patent and Trace	nt of Commerce demark Office	Atty. Docket No.:	63049.000088	Application	No.: 10/644,112
INFO		TION DISC FATEMEN		C			
	(Use se	veral sheets if nece	essary)				
				Applicant: Ronald	d D. Blum et al.		
				Filing Date: Augu	ust 20, 2003	Group: 287	3
			U.S. P	ATENT DOCUM	MENTS		
Examiner Initial*		Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
	59	5,184,156	2/2/93	Black et al.			
	60	5,200,859	4/6/93	Payner et al.			
	61	5,208,688	5/4/93	Fergason et al.			
	62	5,229,885	7/20/93	Quaglia			
	63	5,239,412	8/24/93	Naka et al.			MH 12 4 1 11
	64	5,306,926	4/26/94	Yonemoto			
	65	5,324,930	6/28/94	Jech, Jr.			-
	66	5,352,886	10/4/94	Kane			
	67	5,359,444	10/25/94	Piosenka et al.			
	68	5,375,006	12/20/94	Haas			
	69	5,382,986	1/17/95	Black et al.			
	70	5,440,357	8/8/95	Quaglia			
	71	5,443,506	8/22/95	Gurabet			
	72	5,451,766	9/19/95	Van Berkel			
	73	5,488,439	1/30/96	Weltmann			
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	(Rev. 8-83) U.S. Department of Commerce Patent and Trademark Office					Atty. Docket No.: 63	3049.000	D88 A	Appli	cation No.	: 10/644,112
INFO		ATION DISC TATEMENT		SURE							
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				U.S. PA	T	ENT DOCUME	NTS	•			
Examiner Initial*		Document Number		Date		Name	Class	Sul	bclass		Filing Date f appropriate)
	74	5,522,323	6/4	1/96	Ri	chard					
	75	5,608,567	3/4	1/97	Gı	rupp					
	76	5,615,588	4/	1/97	G	ottschald					
	77	5,654,786	8/5	8/5/97 B		Bylander					
	78	5,712,721	1/2	1/27/98 L		Large					
	79	5,728,155	3/1	17/98	Aı	nello et al.					
	80	5,739,959	4/1	14/98	Qı	uaglia					
	81	5,777,719	7/	7/98	W	illiams et al.					
	82	5,815,233	9/2	29/98	M	orokawa et al.					
	83	5,861,936	1/1	19/99	Sc	orenson					
	84	5,900,720	5/4	1/99	K	allman et al.					
	85	5,949,521	9/	7/99	W	illiams et al.					
	86	5,980,037	11	/9/99	Co	onway					
	87	6,325,508	12	/4/01	De	ecreton et al.			-		
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		Document Numb	er	Date		Country		Class	S	ubclass	Translation Yes No
	1	WO 98/27863		7/2/98		WIPO					Х
	2	0 154 962 A2		9/18/85		EPO		-			Х
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\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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rorm (Rev.	PTO-1 8-83)	449	U.S. Department of Comp Patent and Trademark Of		Atty.	Docket No.: 63049.000088	Application 1	No.: 10/644,112	
	FORM		TION DISCLOSU ATEMENT	JRE					
	(U	se seve	ral sheets if necessary)		Appli	icant: Ronald D. Blum et a	1.		
					Filing	g Date: August 20, 2003	Group: 2873	3	
			]	FORE	IGN	PATENT DOCUM	IENTS		
			ument Number	Da	te	Country	Class	Subclass	Translation Yes No
	3	0 23	3 104 A1	8/19/8	7	EPO			(Abstract)
	4	0 23	37 365 A1	9/16/8	7	EPO			(Abstract)
	5	1-23	37610	9/22/8	9	Japan			(Abstract)
	6	216	9417A <sub>v</sub>	7/09/8	6	UK			Х
	7	217	0613A	8/6/86		UK			X
	8	55-0	076323	6/9/80		Japan			(Abstract)
Exami Initial		<u> </u>	OTI	HER I	OCU	UMENTS (Including Au	ithor, Title, Date, I	Pertinent Pages, Etc	:.)
-		1	"Focusing by Electric Optics, Vol. 23, No. 2			of Refraction in a Liquid 984, pp. 278-289	Crystal Cell"; St	ephen T. Kowel	et al., Applied
		2	"Computer Vision Sy September 15, 1997,			Eyestrain Epidemic"; Rob	ert A. Davis, O.I	D., Review of Opi	ometry,
		3	"The Use of Yoked B	ase-Up a	ınd Ba	se-In Prism for Reducing			art M. Lazarus,
		4	Eyecare Business, Oc			metric Association, April tire issue)	1990, pp. 204-20	<i>J</i> 6	
		5	Conference, Durham,	United l	Kingdo		•		· ·
		6				d Light Modulators for D s, Adaptive Optics Confer			
		7	"Use of Liquid-Crysta Optometry and Vision	al Adapti Science	ve-Op	tics to Alter the Refractive 74, No. 7, July 1997	e State of the Ey	e"; Larry N. Thit	oos et al.,
		8	"Electronic Spectacle	s for the	21 <sup>st</sup> Ce	entury", <i>Indiana Journal</i> e	of Optometry, Vo	ol. 2, No. 1, 1999	
		9	"Profile: Larry N. Th 10, 1999	ibos, Ph	.D. and	Donald Miller, Ph.D.", I		of Optometry, Vo	l. 2, No. 1, pp. 5-
Exam	iner:					Date	Considered:		

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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Form PTO (Rev. 8-83)	-1449	U.S. Department Patent and Trace	nt of Commerce lemark Office	Atty. Docket No.: 630	49.000088	Application	No.: 10/644,112		
INFOR		TION DISC FATEMEN							
(	(Use se	veral sheets if nece	essary)	Applicant: Ronald D.	Applicant: Ronald D. Blum et al.				
				Filing Date: August 2	0, 2003	Group: 287	73		
			U.S. PA	TENT DOCUME	NTS	•			
Examiner Initial*	•	Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)		
	1	4,787,733	11/29/88	Silva					
	2	4,919,520	04/24/90	Okada et al.					
	3	5,050,981	09/24/91	Roffman					
	4	5,114,628	05/19/92	Höfer et al.					
,	5	5,682,223	10/28/97	Menezes et al.					
	6	5,712,721	01/27/98	Large					
	7	5,815,239	09/29/98	Chapman et al.					
	8	5,953,098	09/14/99	Lieberman et al.					
	9	6,086,204	07/11/00	Magnante					
	10	6,095,651	08/01/00	Williams et al.			<b>J</b>		
	11	6,145,987	11/14/00	Baude et al.					
	12	6,305,802	10/23/01	Roffman et al.					
	13	6,554,425	04/29/03	Roffman et al.					
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Form PT( (Rev. 8-83)		U.S. Department Patent and Trader		T	Atty. Docket No.: 63	3049.0000	)88	Ap	plicatio	n No.	: 10/644,112
INFO		ATION DISCI TATEMENT									
	(Use s	everal sheets if necess	ary)	-	Applicant: Ronald I	D. Blum e	t al.				
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		,	U.S. PA	TF	ENT DOCUMI	ENTS					
Examiner Initial*		Document Number	Date		Name	Class	S	ubcl	lass		Filing Date f appropriate)
	14	6,609,794	08/26/03	Le	vine						
	15	6,616,275	09/09/03	Die	ck et al.						
	16	6,616,279	09/09/03	Da	vis et al.						
	17	6,631,001	10/07/03	Ku	iiseko						
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		Document Number			Country		Clas	ss	Subc	lass	Translation Yes No
	1	10366043	12/09/98		JP						Х
	2	PCT/US91/04976	07/15/91		PCT						
	3	PCT/US97/21688	11/21/97		PCT						
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		Document Number	Date	Countr	у	Class	Subclass	Yes
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	1 (	"Control Optimization			stal Lense	s"; A. F. N	Naumov and	d G. D. Love
	2 🗸	Express, Vol. 4, No. "Liquid Crystal Ada Vol. 23, No. 13, July	ptive Lenses with N	Iodal Control'	'; A. F. Na	umov and	l M. Yu Lol	ktev, Optics I
	3	"Liquid Lenses Eye Laser, November 20	Commercial Break		rnet Article	e under "C	Optics.org")	; from <i>Opto</i>
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